Appendix B Supportive Information Requested in Items 4 through 14 of NRH FORM 5

For the convenience of applicants and for streamline handling of fixed gauge applications this appendix should be used to provide supporting information. It is attached to Form NRH - 5.

Please refer to "Regulatory Guide 3.13, "Guidance for Radioactive Material - Fixed Gauge Licenses") for more detail concerning each item and other options available.

- Complete item 1 thru 3 and 15 on NRH-5. Use this Appendix B to complete items 4-14. Please indicate the following on the NRH-5 "See attachment for items 4-14".
- Please check the appropriate box(es) below and submit a detailed description of all the requested information. For additional information begin each item on a separate sheet, identifying the item number and the date of the application on each page.

Item #4 & 5

ITEM NO. AND TITLE	RESPONSE	YES (need to check one item per box)	ATTACHMENTS AND/OR ALTERNATIVE PROCEDURES ATTACHED (If item to left is checked then check and attach item requested in this column.)
4. Individual User(s)	"The radiation safety officer will maintain documentation of training for authorized users and his/her approval of the authorized user."	[]	
4. Training for Individual who in the Course of Employment Are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a year (Occupationally Exposed workers) and Ancillary Personnel	"Will have a training program for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and Ancillary personnel.	[]	Need not be submitted with application. Will be examined during inspections.
5. Radiation Safety Officer (RSO)	Radiation Safety Officer. Name Telephone # "The documentation for the training of the RSO are attached." "The RSO will perform the duties and responsibilities of a RSO per Appendix E of Regulatory Guide 3.13, 'Radioactive Material –Guidance for Fixed Gauges Licenses." Or "Will provide alternate list of duties and responsibilities of the RSO per the criteria of Appendix E."	[] [] Or [] and	[]Training Records of RSO []Alternate List of duties and responsibilities of the RSO

I	TEM NO. AND TITLE	RESPONSE	YES (need to check one item per box)	ATTACHMENTS AND/OR ALTERNATIVE PROCEDURES ATTACHED (If item to left is checked then check and attach item requested in this column.)
6. 6.a.	Radioactive Material Element and Mass Number	List each radioisotope that will be used in each source in the gauging device(s).	Complete item 6 below []	
	Chemical and/or physical form	Identify the manufacturer and model number of each sealed source that will be used in the fixed gauging device. Confirm that each sealed source, device and source/device combination is registered as an approved sealed source or device in the Sealed Source and Device regulation issued by NRC or an Agreement State.		
6.c. to be one	Maximum amount possessed at any time	Specify the maximum amount of radioactive material that will be in each sealed source. Confirm that the activity per source will not exceed the maximum activity listed on the approved Sealed Source and Device regulation issued by NRC or an Agreement State.		
6.d.	Authorized use AND Manufacturer and model number of	Specify the purpose for the use of the gauging device. And Identify the manufacturer and model number of the gauging device in which the sealed sources will be used.		
the	gauging device			

Please enter the necessary information for item 6 below. If you need additional space please add an attachment

6.a. Element and Mass Number	6.b. Chemical or Physical Form (Make and Model if sealed source)	6.c. Maximum Activity Requested (Expressed as Curies, Millicuries or Microcuries)	6.d. Use of Each Form (If sealed source, also give Make and Model Number of the storage and/or device in which sealed source will be stored and/or used

enance and transfer	
ria in training records Il maintain records ae authorized users. spection.	[] Course for Agency approval
d 'Radiation Guide 3.13, fixed Gauges meter that meets the on Detection g, 'Radioactive d 'Radiation Or [] and	[]A plan of how an instrument will be obtained.
libration service mber and the state or y's license is	
onts in-house formation describing and procedures to be for in house	[]In house calibration procedure for Agency approval.
te e aikue a ca e	tenance and transfer etion of an eight(8) e gauge Or [] and ain training records ill maintain records he authorized users. spection. etention schedule. curvey meter that d 'Radiation Guide 3.13, Fixed Gauges Tixed Gauges Or [] and Or [] and

11 Personnel Monitoring Devices	"We will provide dosimetry processed and evaluated by a NVLAP approved processor that is exchanged at a frequency recommended by the processor." "We will be using the following type: Film Badge TLD OSL Other (Specify) The supplier is: Monthly Quarterly Other (Specify) Or "We will maintain, for inspection by the Agency, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10 percent of the allowable limits of 180 NAC 4" Note: See Appendix M for guidance on demonstrating that unmonitored individuals are not likely to exceed 10 percent of the allowable limits.	Or []	
12. Eacilities and Equipment	"A diagram of the facility showing the location of each fixed gauge is attached. We will ensure that the location of each fixed gauge meets the criteria in the section entitled "Facilities and Equipment" in "Radioactive Material Guidance for Fixed Gauge Licenses, Regulatory Guide 3.13." Address any instances where the proposed conditions exceed any conditions listed in the SSD Registration Certificate." Or "A diagram of the facility showing the location of each fixed gauge is attached. Confirm that the fixed gauge is secured to prevent unauthorized removal or access; and submit specific information demonstrating that the proposed conditions will not impact the safety or integrity of the source or device. Address any instances where the proposed conditions exceed any conditions listed in the SSD Registration Certificate." Note: • Any deviations from an SSD Registration Certificate will require specific Agency approval. • Alternative responses will be evaluated using the criteria listed above. A diagram of the permanent gauge storage facility is attached."	Or []	

13.	Radiation Protection Program	"We have implemented and will maintain operating and emergency procedures in Appendix F Regulatory Guide	[]	
13a.	Operating and	3.13 "Radioactive Material Guidance for Fixed Gauges		
	Emergency	Licenses." "Copies of these procedures will be provided		
	Procedures	to all authorized users and at each job site."		
		(A copy of these Operating and Emergency Procedures		
		will be copied from Regulatory Guide 3.13. The		
		information to individualize the procedure will be		
		completed.)		
		Or		
		"We have implemented and will maintain operating and	Or	
		emergency procedures submitted with this application.	[] and	[] In house operating
		They meet the criteria of section titled Radiation		and emergency
		Protection Program – Operating and Emergency		procedures for agency
		Procedures in Regulatory Guide 3.4 "Radioactive Material		approval.
		Guidance for Fixed Gauges Licenses.". Copies of these		
		procedures will be provided to all authorized users and at		
		each job site."		
			I	

Page B-5

13. Radiation Protection	"Leak tests will be performed at 6 month intervals or	[]	
Program	approved by the Agency, an Agreement State, or the U.S.		
13b.Leak Tests	Nuclear Regulatory Commission and specified in the		
	Sealed Source and Device Registration Sheet and the records maintained."		
	"Leak tests will be performed by an organization	[]	
	authorized by the Agency, an Agreement State or the U.S.	L J	
	Nuclear Regulatory Commission to provide leak testing		
	services for other licensees.		
	And Leak test kit supplied by an organization authorized by	And []	
	the Agency, an Agreement State or U.S. Nuclear	LJ	
	Regulatory Commission to provide leak test kits to other		
	licensees and according to the kit supplier's instructions.		
	Name of licensee and license radioactive material license number performing maintenance:		
	And/Or Supplier of leak test kit:	And/Or	
	Model number of kit		
	Suppliers Address		
	Or		
	"In house leak testing procedure approved by the Agency."	Or	[] In house leak testing
	ST	[]	procedure for Agency
	Note: Appendix O in Regulatory Guide 3.13 "Radioactive		approval.
	Material Guidance for Fixed Gauges Licenses" indicates		
	the criteria and procedure for in house leak testing. Instrument used must be identified.		
13. Radiation Protection	ROUTINE CLEANING & LUBRICATION		
Program	"We will implement and maintain procedures for routine	[]	
13c. Maintenance	maintenance of our gauges according to each manufacturer's recommendations and instructions."		
	Or	Or	
	Alternative procedures for the Agency's review.	[] and	[] Alternative procedure
			attached for Agency
	NON-ROUTINE MAINTENANCE		review.
	"The gauge manufacturer, distributor or other person	[]	
	authorized by the Agency, the U.S. Nuclear		
	Regulatory Commission or other Agreement State		
	will perform non-routine operations such as		
	installation, initial radiation survey, repair, and maintenance of components related to the		
	radiological safety of the gauge, gauge relocation,		
	replacement, and disposal of sealed sources,		
	alignment or removal of a gauge from service."		
	Or	Or [] and	[] Submit non-routine
	"We will provide needed information to support request to perform non-routine maintenance per	[] anu	maintenance procedure
	Appendix P of Regulatory Guide 3.13 "Radioactive		for Agency approval.
	material Guidance for Fixed Gauge Licenses."		See Appendix P for the
			criteria to be used.
13. Radiation Protection	No response is needed from applicants during the licensing		e Submitted With
Program	process; this issue will be reviewed during inspection.		See Appendix Q for
13d. Transportation			tions and sample bill of
		lading and fo	UIIII.

 13. Radiation Protection Program 13e. Fixed Gauges Used at Temporary Job Site 	We will not use fixed gauges at temporary job sites." Or "Procedures for use of fixed gauges at temporary job sites have been developed, implemented, maintained, and distributed and will meet the Criteria in the section entitled 'Fixed Gauges Used at Temporary Job Sites,' in Regulatory Guide 3.14, 'Radioactive Material Guidance for Fixed Gauge Licenses' and copies of these procedures will be provided to all gauge users." Or Alternative procedures for use of fixed gauges at temporary job sites. Note: Alternative procedures will be evaluated using the criteria listed above.	[] Or [] Or []And	[] Alternative procedures
13. Radiation Protection Program 13f. Audit Program	"We will have an audit program." Note: See Appendix S for a sample audit program. The audit program will be reviewed during an inspection.	[]	Need not be submitted with application.
13. Radiation Protection Program 13g. Material Receipt and Accountability	"Physical inventories will be conducted at least every 6 months or at other intervals approved by the Agency, to account for all sealed sources and devices received and possessed under the license." Or A description of the procedures for ensuring that no fixed gauge has been lost, stolen, or misplaced and how often they will be conducted. Note: See Appendix T for a sample inventory procedure and inventory form.	Or []And	[]Alternative procedure
13. Radiation ProtectionProgram 13h. Public Dose	"We will maintain documentation (calculations and/or measurements) to show that any member of the public does not exceed a radiation dose of 100 mrem per year and do not exceed 2 mrem in any one hour in an unrestricted area." Note: The applicant is not required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection. See appendix M for a example.	[]	Need Not be Submitted with Application.
14. Waste Disposal	"Disposal will be by transfer of the radioactive material to a licensee specifically authorized to possess it in accordance with Appendix V." Note: Due to difficulties and costs associated with disposal of sealed neutron sources, applicants should preplan the disposal	[]	
15. Certification	Signed by management representative authorized to make binding commitments.	Item 15 ne 5.	eds to be signed on NRH-